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3D NAND Memory Market Research Report - Global Forecast till 2027

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Description:

3D NAND Memory Market Overview

3D NAND Memory Market Outlook Has the major capacity of raising the performance of highly efficient web browsing, applications, and games. The people are reluctant towards the adoption of cloud technology, and the growing need for sufficient non-volatile storage choices is likely to force the increase in the demand and market for flash memory. Global 3D NAND Memory can keep the data in a proper safe manner in case of a power outage or failure. The Flash Memory Market size is projected to earn a valuation of USD 62 billion by 2025, with an approximate CAGR of 30% during the estimated period (2019-2025). The rising disposable power of the consumers and the miniaturization of a large number of storage devices can push the index of the market growth.

The NAND Flash Memory Market is suffering a downfall because of the dependable nature of NOR flash memory and its widely used application in automobiles. The massive technological innovations in the field of infotainment systems, telematics systems, and modern instrument clusters are proof of their huge potential. Due to the rising number of the use of smartphones, developed communication networking technologies, and modern features for entertainment and high feature security can run the need for flash memory. 3D NAND Memory Market Outlook Has the major capacity of raising the performance of highly efficient web browsing, applications, and games. But the day-to-day lowering of the nature of flash memory over the spread of time can hamper the market accelerated market growth.

COVID 19 Impacts and Effects

The 3D NAND Memory Industry has been hit badly during the COVID-19 pandemic, and this has made a huge windfall for the latest flash memory market. This also has an explicit relation to the projected identity and similar online attacks on companies that cultivates a large amount of data loss and information theft. The budget for storage devices has been increased, and there are major complexities that are involved in usual data aggregation that can affect all the market leaders badly. The major reliability of NOR and NAND traditional flash storage solutions for boot code storage and maximum usage of these applications for accumulating essential documents had led to the primary investments in modern storage solutions during the increasing pandemic. The process of procurement of high-resolution TV sets and rising inclusion of LPDDR3 DRAM that has high bandwidth fees for viewing and recreational purposes.

Market Dynamics

• Major Drivers of The Market

The evolution of modern devices has made a positive influence on the capacity of flash memory over the decades. The cost of flash memory devices is more affordable now because of lowered prices of raw materials and rising demand by consumers. But because of the upcoming and development of 5G and the systematic integration of new-age technology like fingerprint scanners and essential affordable features in daily

smartphones can accelerate the high demand for memory solutions. The rising interface bandwidth of technologically advanced hosts and balanced host specifications in the relative future can bode well for the growing 3D NAND Memory Industry. As per the description of the Ericsson Mobility Report, 5G subscriptions can be increasing till the year 2024 in the North American region, which develops a new opportunity for highly popular flash memory architecture. On the contrary a rising need for solid-state drives (SSDs) with higher memory space in major technical devices, such as laptops, tablets, and smartphones. There is a major demand for high-performance computers, which are less costly. Also, an increase in the need for small-form-factor has created better scope for R&D for such large memory devices.

- **Significant Opportunities for The Market**

The Global 3D NAND Memory Market share is booming like never before. It is a global marketplace. It is an integrated platform. There are plenty of small and medium enterprises (SMEs) associated with this. The 3D NAND Memory Market Growth is marvelous. It is a highly competitive market. Moreover, the encouragement by the native Government for spreading and grasping these technologies or services represents a scalable opportunity for the public-owned car market to expand its reach. The reliance on modern devices for commercial and personal purposes can trip the market need or expectation over the estimated period.

- **Market Restraints**

There is always a fear in the global health market growth. Due to this fact, 3D NAND Memory Market Demand is evolving every day and trying to combat its negative sides. The lack of awareness of the industry about the governance of NAND Flash Memory technologies increases the risk of the restraints. That is the reason many companies are advised to be monitored continuously in their operations to lower the risks and improve the standard security features.

- **Market Growth Challenges**

After the detailed 3D NAND Memory Market Analysis, there are few constraints that are clearly visible. The major demand for data storage in different types of consumer electronics and plenty of enterprise storage sectors has contributed towards the expansion of the recent global 3D NAND memory market. Apart from this, the primary demand for various miniaturization of chips and semiconductor wafers has also forced the highly efficient manufacturers to invent highly precise 3D NAND memory. However, high manufacturing costs that are needed for the design and development of 3D NAND memory are hampering the primary expansion on the global platform of this technology.

- **Cumulative Growth Analysis**

The primary 3D NAND Flash Memory Market claims to have a 30% over the estimated. The demand for this concept has risen because companies are conscious now. The Asian and North American countries are focusing on expanding the production to meet the targets and deal with innovative technologies effectively.

- **Value Chain Analysis**

A lot of different types of 3D NAND Memory Market Analysis are available; the market of this segment is very dynamic. The market is growing every moment. It shares a competitive landscape. Companies are now investing in research and development, new market initiatives, major regional presence, company prime strengths and weaknesses, new launches related to wireless products, and many more.

The major segments which dominate the 3D NAND Memory Market Size are:

Market Segmentation

Types: 3D NAND Flash Memory Market

- Single-Level Cell (SLC)
- Multi-Level Cell (MLC)
- Triple-Level Cell (TLC)

End-Users: 3D NAND Flash Memory Market

- Automotive
- Consumer Electronics
- Enterprise
- Healthcare
- Others

Applications: 3D NAND Flash Memory Market

- Cameras
- Laptops & PCs
- Smartphone & Tablets
- Others

Primary organizations that are operating the 3D NAND market research industry are:

- VIA Technologies INC.
- Infineon Technologies AG
- Microchip Technology Inc.
- ON Semiconductor
- Intel Corporation
- Western Digital Corporation
- Micron Technology Inc.
- Integrated Silicon Solution Inc.
- Transcend Information Inc.
- Phison Electronics Corporation
- SK HYNIX INC.
- Realtek Semiconductor Corp.
- Silicon Motion Technology Corp.
- Seagate Technology LLC
- JMICRON Technology Corporation
- AMIC Technology Corporation

- KIOXIA Holdings Corporation
- Marvell

By Sales Channel

Companies are creating new avenues, and this concept of 3D NAND Memory Market Report shows many healthy trends. The processes are dynamic now, so the concept of this technology is evolving every day. To meet the supply chain and global technology services criteria, the companies are getting agreement to grow together.

By Application

The prominent players, who have the maximum ownership in the 3D NAND Memory Market Share, deliberately keep innovating and investing in research and development in order to keep a tap on a cost-effective portfolio. There have been global mergers and acquisitions among the major players, where the business entities project to bolster their reach to their consumers.

Regional Analysis

After making a detailed analysis of the regions, careful segregation of the market includes North America, Europe, South America, Asia Pacific, and the Middle East, Gulf, and Africa. No doubt, the Asia Pacific region has hugely dominated the global 3D NAND flash memory market with an outstanding earning of USD 4,216.49 Million in 2017 whereas, it has been observed that the North America region occupies a second leading position in the market.

The study of the Asia Pacific region reveals that there is a big market demand for lightweight memory design, and high longevity has encouraged the adoption of 3D NAND to flash memory systems in many enterprise storage and automotive industries; these factors are providing the most lucrative opportunities for the market development. Also, it has been seen that North America is a hugely growing region as it is the most modern as far as the development and enactment of innovative technologies in the field of semiconductors.

Regions

- **North America**

- The U.S.
- Canada
- Mexico

- **Europe**

- Germany
- France
- Sweden
- Netherlands
- K.
- Italy
- Spain
- Turkey

- Switzerland
- Belgium
- Rest of Europe

- **Asia-Pacific**

- Japan
- China
- India
- South Korea
- Australia
- Singapore
- Malaysia
- Thailand
- Indonesia
- Philippines
- Rest of Asia-Pacific

- **South America**

- Brazil
- Argentina
- Colombia
- Rest of South America

- **The Middle East and Africa**

- Saudi Arabia
- UAE
- Egypt
- Nigeria
- South Africa
- Rest of The Middle East and Africa

Recent Development

- In August 2019, Toshiba launched the XL-FLASH, a has been launched a new low-latency SLC 3D NAND flash memory.
- In August 2019, Samsung Electronics launched its major sixth generation of V-NAND memory with the

latest feature.

- In July 2019, SK Hynix decreased the production of its 3D NAND wafers.
- In July 2019, Toshiba Memory Holdings Corporation, a subsidiary of Toshiba Corporation, merged with many companies

Report Overview

- Market overview highlights the global recognition of the 3D NAND Memory Market Forecast
- Analysis based upon COVID 19
- Explanation upon the Market Dynamics
- Value chain analysis
- Market segmentation overview
- The regional analysis
- Competitive landscape analysis
- Recent Developments

GLOBAL 3D NAND MEMORY MARKET

The global 3D NAND memory market was initially valued at USD 10.56 Billion in 2018 and is estimated to attain USD 62 billion by the end of the review period with a CAGR of 30%.

3D NAND
Cell

BY TYPE

- Multi-Level Cell (MLC)
- Triple-Level Cell (TLC)
- Quad-Level Cell (QLC)

BY APPLICATION

- USB
- Flash Card
- SSD
- Smartphone
- Tablet
- Kiosk
- Others

BY VERTICAL

- Aerospace & Defense
- IT & Telecommunication
- Healthcare
- Transportation
- Retail
- Others

BY REGION

- North America
- Europe
- Asia-Pacific
- Rest of the World

Global 3d Nand Memory Market Share, By Region,



DRIVERS:

- Rising interface bandwidth of technologically advanced hosts and balanced host specifications.
- Increase in the need for small-form-factor has created better scope for R&D for large memory devices.

RESTRAINT:

- The lack of awareness of the industry about the governance of NAND Flash Memory technologies.

KEY PLAYERS:

- VIA Technologies INC.
- Infineon Technologies AG
- Microchip Technology Inc.
- ON Semiconductor
- Intel Corporation
- Western Digital Corporation
- Micron Technology Inc.
- Integrated Silicon Solution Inc.
- Transcend Information Inc.
- Phison Electronics Corporation
- SK HYNIX INC.
- Realtek Semiconductor Corp.
- Silicon Motion Technology Corp.
- Seagate Technology LLC
- JMICRON Technology Corporation
- AMIC Technology Corporation
- KIOXIA Holdings Corporation
- Marvell



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Table of Content:

Contents	
Table of Contents	
1. EXECUTIVE SUMMARY	
1.1. Market Attractiveness Analysis	
1.2. Global 3D NAND Memory Market, by Type	
1.3. Global 3D NAND Memory Market, by Application	
1.4. Global 3D NAND Memory Market, by Vertical	
1.5. Global 3D NAND Memory Market, by Region	
2. MARKET INTRODUCTION	
2.1. Definition	
2.2. Scope of the Study	
2.3. Market Structure	
3. RESEARCH METHODOLOGY	
3.1. Research Process	
3.2. Primary Research	
3.3. Secondary Research	
3.4. Market Size Estimation	
3.5. Forecast Model	
3.6. List of Assumptions	
4. MARKET INSIGHTS	
5. MARKET DYNAMICS	
5.1. Introduction	
5.2. Drivers	
5.2.1. Drivers Impact Analysis	
5.3. Restraints	
5.3.1. Restraints Impact Analysis	
5.4. Opportunities	
5.5. Challenges	
6. MARKET FACTOR ANALYSIS	
6.1. Supply/Value Chain Analysis	
6.2. Porter's Five Forces Model	
6.2.1. Threat of New Entrants	
6.2.2. Bargaining Power of Suppliers	
6.2.3. Bargaining Power of Buyers	
6.2.4. Threat of Substitutes	
6.2.5. Intensity of Rivalry	
7. GLOBAL 3D NAND MEMORY MARKET, BY TYPE	
7.1. Overview	
7.2. Multi-Level Cell (MLC)	
7.2.1. Multi-Level Cell (MLC): Market Estimates & Forecast, by Region/Country, 2020-2027	
7.3. Triple-Level Cell (TLC)	
7.3.1. Triple-Level Cell (TLC): Market Estimates & Forecast, by Region/Country, 2020-2027	
7.4. Quad-Level Cell (QLC)	
7.4.1. Quad-Level Cell (QLC): Market Estimates & Forecast, by Region/Country, 2020-2027	
8. GLOBAL 3D NAND MEMORY MARKET, BY APPLICATION	
8.1. Overview	
8.2. USB	
8.2.1. USB: Market Estimates & Forecast, by Region/Country, 2020-2027	
8.3. Flash Card	
8.3.1. Flash Card: Market Estimates & Forecast, by Region/Country, 2020-2027	
8.4. SSD	
8.4.1. SSD: Market Estimates & Forecast, by Region/Country, 2020-2027	
8.5. Smartphone	
8.5.1. Smartphone: Market Estimates & Forecast, by Region/Country, 2020-2027	
8.6. Tablet	
8.6.1. Tablet: Market Estimates & Forecast, by Region/Country, 2020-2027	
8.7. Kiosk	
8.7.1. Kiosk: Market Estimates & Forecast, by Region/Country, 2020-2027	
8.8. Others	
8.8.1. Others: Market Estimates & Forecast, by Region/Country, 2020-2027	
9. GLOBAL 3D NAND MEMORY MARKET, BY VERTICAL	
9.1. Overview	
9.2. Aerospace & Defense	
9.2.1. Aerospace & Defense: Market Estimates & Forecast, by Region/Country, 2020-2027	
9.3. IT & Telecommunication	
9.3.1. IT & Telecommunication: Market Estimates & Forecast, by Region/Country, 2020-2027	
9.4. Healthcare	
9.4.1. Healthcare: Market Estimates & Forecast, by Region/Country, 2020-2027	
9.5. Transportation	
9.5.1. Transportation: Market Estimates & Forecast, by Region/Country, 2020-2027	
9.6. Retail	
9.6.1. Retail: Market Estimates & Forecast, by Region/Country, 2020-2027	
9.7. Others	
9.7.1. Others: Market Estimates & Forecast, by Region/Country, 2020-2027	
10. GLOBAL 3D NAND MEMORY MARKET, BY REGION	
10.1. Overview	
10.2. North America	
10.2.1. Market Estimates & Forecast, by Country, 2020-2027	
10.2.2. Market Estimates & Forecast, by Type, 2020-2027	
10.2.3. Market Estimates & Forecast, by Application, 2020-2027	
10.2.4. Market Estimates & Forecast, by Vertical, 2020-2027	
10.2.5. US	
10.2.5.1. Market Estimates & Forecast, by Type, 2020-2027	
10.2.5.2. Market Estimates & Forecast, by Application, 2020-2027	
10.2.5.3. Market Estimates & Forecast, by Vertical, 2020-2027	

- 10.2.6. Canada
 - 10.2.6.1. Market Estimates & Forecast, by Type, 2020-2027
 - 10.2.6.2. Market Estimates & Forecast, by Application, 2020-2027
 - 10.2.6.3. Market Estimates & Forecast, by Vertical, 2020-2027
- 10.2.7. Mexico
 - 10.2.7.1. Market Estimates & Forecast, by Type, 2020-2027
 - 10.2.7.2. Market Estimates & Forecast, by Application, 2020-2027
 - 10.2.7.3. Market Estimates & Forecast, by Vertical, 2020-2027
- 10.3. Europe
 - 10.3.1. Market Estimates & Forecast, by Country, 2020-2027
 - 10.3.2. Market Estimates & Forecast, by Type, 2020-2027
 - 10.3.3. Market Estimates & Forecast, by Application, 2020-2027
 - 10.3.4. Market Estimates & Forecast, by Vertical, 2020-2027
 - 10.3.5. UK
 - 10.3.5.1. Market Estimates & Forecast, by Type, 2020-2027
 - 10.3.5.2. Market Estimates & Forecast, by Application, 2020-2027
 - 10.3.5.3. Market Estimates & Forecast, by Vertical, 2020-2027
 - 10.3.6. Germany
 - 10.3.6.1. Market Estimates & Forecast, by Type, 2020-2027
 - 10.3.6.2. Market Estimates & Forecast, by Application, 2020-2027
 - 10.3.6.3. Market Estimates & Forecast, by Vertical, 2020-2027
 - 10.3.7. France
 - 10.3.7.1. Market Estimates & Forecast, by Type, 2020-2027
 - 10.3.7.2. Market Estimates & Forecast, by Application, 2020-2027
 - 10.3.7.3. Market Estimates & Forecast, by Vertical, 2020-2027
 - 10.3.8. Spain
 - 10.3.8.1. Market Estimates & Forecast, by Type, 2020-2027
 - 10.3.8.2. Market Estimates & Forecast, by Application, 2020-2027
 - 10.3.8.3. Market Estimates & Forecast, by Vertical, 2020-2027
 - 10.3.9. Italy
 - 10.3.9.1. Market Estimates & Forecast, by Type, 2020-2027
 - 10.3.9.2. Market Estimates & Forecast, by Application, 2020-2027
 - 10.3.9.3. Market Estimates & Forecast, by Vertical, 2020-2027
 - 10.3.10. Rest of Europe
 - 10.3.10.1. Market Estimates & Forecast, by Type, 2020-2027
 - 10.3.10.2. Market Estimates & Forecast, by Application, 2020-2027
 - 10.3.10.3. Market Estimates & Forecast, by Vertical, 2020-2027
- 10.4. Asia-Pacific
 - 10.4.1. Market Estimates & Forecast, by Country, 2020-2027
 - 10.4.2. Market Estimates & Forecast, by Type, 2020-2027
 - 10.4.3. Market Estimates & Forecast, by Application, 2020-2027
 - 10.4.4. Market Estimates & Forecast, by Vertical, 2020-2027
 - 10.4.5. China
 - 10.4.5.1. Market Estimates & Forecast, by Type, 2020-2027
 - 10.4.5.2. Market Estimates & Forecast, by Application, 2020-2027
 - 10.4.5.3. Market Estimates & Forecast, by Vertical, 2020-2027
 - 10.4.6. Japan
 - 10.4.6.1. Market Estimates & Forecast, by Type, 2020-2027
 - 10.4.6.2. Market Estimates & Forecast, by Application, 2020-2027
 - 10.4.6.3. Market Estimates & Forecast, by Vertical, 2020-2027
 - 10.4.7. India
 - 10.4.7.1. Market Estimates & Forecast, by Type, 2020-2027
 - 10.4.7.2. Market Estimates & Forecast, by Application, 2020-2027
 - 10.4.7.3. Market Estimates & Forecast, by Vertical, 2020-2027
 - 10.4.8. South Korea
 - 10.4.8.1. Market Estimates & Forecast, by Type, 2020-2027
 - 10.4.8.2. Market Estimates & Forecast, by Application, 2020-2027
 - 10.4.8.3. Market Estimates & Forecast, by Vertical, 2020-2027
 - 10.4.9. Taiwan
 - 10.4.9.1. Market Estimates & Forecast, by Type, 2020-2027
 - 10.4.9.2. Market Estimates & Forecast, by Application, 2020-2027
 - 10.4.9.3. Market Estimates & Forecast, by Vertical, 2020-2027
 - 10.4.10. Rest of Asia-Pacific
 - 10.4.10.1. Market Estimates & Forecast, by Type, 2020-2027
 - 10.4.10.2. Market Estimates & Forecast, by Application, 2020-2027
 - 10.4.10.3. Market Estimates & Forecast, by Vertical, 2020-2027
- 10.5. Middle East & Africa
 - 10.5.1. Market Estimates & Forecast, by Country, 2020-2027
 - 10.5.2. Market Estimates & Forecast, by Type, 2020-2027
 - 10.5.3. Market Estimates & Forecast, by Application, 2020-2027
 - 10.5.4. Market Estimates & Forecast, by Vertical, 2020-2027
 - 10.5.5. Saudi Arabia
 - 10.5.5.1. Market Estimates & Forecast, by Type, 2020-2027
 - 10.5.5.2. Market Estimates & Forecast, by Application, 2020-2027
 - 10.5.5.3. Market Estimates & Forecast, by Vertical, 2020-2027
 - 10.5.6. UAE
 - 10.5.6.1. Market Estimates & Forecast, by Type, 2020-2027
 - 10.5.6.2. Market Estimates & Forecast, by Application, 2020-2027
 - 10.5.6.3. Market Estimates & Forecast, by Vertical, 2020-2027
 - 10.5.7. Rest of Middle East & Africa
 - 10.5.7.1. Market Estimates & Forecast, by Type, 2020-2027
 - 10.5.7.2. Market Estimates & Forecast, by Application, 2020-2027
 - 10.5.7.3. Market Estimates & Forecast, by Vertical, 2020-2027
- 10.6. Central & South America
 - 10.6.1. Market Estimates & Forecast, by Country, 2020-2027
 - 10.6.2. Market Estimates & Forecast, by Type, 2020-2027
 - 10.6.3. Market Estimates & Forecast, by Application, 2020-2027

- 10.6.4. Market Estimates & Forecast, by Vertical, 2020–2027
- 10.6.5. Argentina
 - 10.6.5.1. Market Estimates & Forecast, by Type, 2020–2027
 - 10.6.5.2. Market Estimates & Forecast, by Application, 2020–2027
 - 10.6.5.3. Market Estimates & Forecast, by Vertical, 2020–2027
- 10.6.6. Brazil
 - 10.6.6.1. Market Estimates & Forecast, by Type, 2020–2027
 - 10.6.6.2. Market Estimates & Forecast, by Application, 2020–2027
 - 10.6.6.3. Market Estimates & Forecast, by Vertical, 2020–2027
- 10.6.7. Rest of Central & South America
 - 10.6.7.1. Market Estimates & Forecast, by Type, 2020–2027
 - 10.6.7.2. Market Estimates & Forecast, by Application, 2020–2027
 - 10.6.7.3. Market Estimates & Forecast, by Vertical, 2020–2027
- 11. COMPETITIVE LANDSCAPE
 - 11.1. Competitive Overview
 - 11.2. Market Share Analysis
 - 11.3. Competitive Benchmarking
- 12. COMPANY PROFILES
 - 12.1. SAMSUNG
 - 12.1.1. Company Overview
 - 12.1.2. Financial Overview
 - 12.1.3. Product Offered
 - 12.1.4. Key Development
 - 12.1.5. SWOT Analysis
 - 12.1.6. Key Strategies
 - 12.2. Toshiba Corporation
 - 12.2.1. Company Overview
 - 12.2.2. Financial Overview
 - 12.2.3. Product Offered
 - 12.2.4. Key Development
 - 12.2.5. SWOT Analysis
 - 12.2.6. Key Strategies
 - 12.3. Western Digital Corporation
 - 12.3.1. Company Overview
 - 12.3.2. Financial Overview
 - 12.3.3. Product Offered
 - 12.3.4. Key Development
 - 12.3.5. SWOT Analysis
 - 12.3.6. Key Strategies
 - 12.4. Micron Technology, Inc.
 - 12.4.1. Company Overview
 - 12.4.2. Financial Overview
 - 12.4.3. Product Offered
 - 12.4.4. Key Development
 - 12.4.5. SWOT Analysis
 - 12.4.6. Key Strategies
 - 12.5. Intel Corporation
 - 12.5.1. Company Overview
 - 12.5.2. Financial Overview
 - 12.5.3. Product Offered
 - 12.5.4. Key Development
 - 12.5.5. SWOT Analysis
 - 12.5.6. Key Strategies
 - 12.6. SK HYNIX INC.
 - 12.6.1. Company Overview
 - 12.6.2. Financial Overview
 - 12.6.3. Product Offered
 - 12.6.4. Key Development
 - 12.6.5. SWOT Analysis
 - 12.6.6. Key Strategies
 - 12.7. Applied Materials, Inc.
 - 12.7.1. Company Overview
 - 12.7.2. Financial Overview
 - 12.7.3. Product Offered
 - 12.7.4. Key Development
 - 12.7.5. SWOT Analysis
 - 12.7.6. Key Strategies
 - 12.8. Macronix International Co., Ltd
 - 12.8.1. Company Overview
 - 12.8.2. Financial Overview
 - 12.8.3. Product Offered
 - 12.8.4. Key Development
 - 12.8.5. SWOT Analysis
 - 12.8.6. Key Strategies
 - 12.9. Yangtze Memory Technologies Co., Ltd (YMTC)
 - 12.9.1. Company Overview
 - 12.9.2. Financial Overview
 - 12.9.3. Product Offered
 - 12.9.4. Key Development
 - 12.9.5. SWOT Analysis
 - 12.9.6. Key Strategies
 - 12.10. Delkin Devices
 - 12.10.1. Company Overview
 - 12.10.2. Financial Overview
 - 12.10.3. Product Offered
 - 12.10.4. Key Development
 - 12.10.5. SWOT Analysis

12.10.6. Key Strategies
12.11. Cypress Semiconductor Corporation
12.11.1. Company Overview
12.11.2. Financial Overview
12.11.3. Product Offered
12.11.4. Key Development
12.11.5. SWOT Analysis
12.11.6. Key Strategies
12.12. Transcend Information, Inc.
12.12.1. Company Overview
12.12.2. Financial Overview
12.12.3. Product Offered
12.12.4. Key Development
12.12.5. SWOT Analysis
12.12.6. Key Strategies
12.13. Hitachi High-Technologies Corporation
12.13.1. Company Overview
12.13.2. Financial Overview
12.13.3. Product Offered
12.13.4. Key Development
12.13.5. SWOT Analysis
12.13.6. Key Strategies
12.14. Panasonic Corporation
12.14.1. Company Overview
12.14.2. Financial Overview
12.14.3. Product Offered
12.14.4. Key Development
12.14.5. SWOT Analysis
12.14.6. Key Strategies

** Note: Details on financial overview, SWOT analysis, key strategy might not be captured in case of unlisted companies as the financial details of companies are not disclosed due to private ownership of the company and unavailability of financial data on public domain or any other reliable sources.

13. APPENDIX

13.1. List of Abbreviation
13.2. Related Research Market Study

List of Tables

Table 1 Global 3D NAND Memory Market, by Type, 2020–2027
Table 2 Global 3D NAND Memory Market, by Application, 2020–2027
Table 3 Global 3D NAND Memory Market, by Vertical, 2020–2027
Table 4 Global 3D NAND Memory Market, by Region, 2020–2027
Table 5 North America: 3D NAND Memory Market, by Country, 2020–2027
Table 6 North America: 3D NAND Memory Market, by Type, 2020–2027
Table 7 North America: 3D NAND Memory Market, by Application, 2020–2027
Table 8 North America: 3D NAND Memory, Market, by Vertical, 2020–2027
Table 9 US: 3D NAND Memory Market, by Type, 2020–2027
Table 10 US: 3D NAND Memory Market, by Application, 2020–2027
Table 11 US: 3D NAND Memory Market, by Vertical, 2020–2027
Table 12 Canada: 3D NAND Memory Market, by Type, 2020–2027
Table 13 Canada: 3D NAND Memory Market, by Application, 2020–2027
Table 14 Canada: 3D NAND Memory, Market, by Vertical, 2020–2027
Table 15 Mexico: 3D NAND Memory Market, by Type, 2020–2027
Table 16 Mexico: 3D NAND Memory Market, by Application, 2020–2027
Table 17 Mexico: 3D NAND Memory, Market, by Vertical, 2020–2027
Table 18 Europe: 3D NAND Memory Market, by Country, 2020–2027
Table 19 Europe: 3D NAND Memory Market, by Type, 2020–2027
Table 20 Europe: 3D NAND Memory Market, by Application, 2020–2027
Table 21 Europe: 3D NAND Memory Market, by Vertical, 2020–2027
Table 22 Germany: 3D NAND Memory Market, by Type, 2020–2027
Table 23 Germany: 3D NAND Memory Market, by Application, 2020–2027
Table 24 Germany: 3D NAND Memory Market, by Vertical, 2020–2027
Table 25 France: 3D NAND Memory Market, by Type, 2020–2027
Table 26 France: 3D NAND Memory Market, by Application, 2020–2027
Table 27 France: 3D NAND Memory Market, by Vertical, 2020–2027
Table 28 Spain: 3D NAND Memory Market, by Type, 2020–2027
Table 29 Spain: 3D NAND Memory Market, by Application, 2020–2027
Table 30 Spain: 3D NAND Memory Market, by Vertical, 2020–2027
Table 31 UK: 3D NAND Memory Market, by Type, 2020–2027
Table 32 UK: 3D NAND Memory Market, by Application, 2020–2027
Table 33 UK: 3D NAND Memory Market, by Vertical, 2020–2027
Table 34 Italy: 3D NAND Memory Market, by Type, 2020–2027
Table 35 Italy: 3D NAND Memory Market, by Application, 2020–2027
Table 36 Italy: 3D NAND Memory Market, by Vertical, 2020–2027
Table 37 Rest of Europe: 3D NAND Memory Market, by Type, 2020–2027
Table 38 Rest of Europe: 3D NAND Memory Market, by Application, 2020–2027
Table 39 Rest of Europe: 3D NAND Memory Market, by Vertical, 2020–2027
Table 40 Asia-Pacific: 3D NAND Memory Market, by Country, 2020–2027
Table 41 Asia-Pacific: 3D NAND Memory Market, by Type, 2020–2027
Table 42 Asia-Pacific: 3D NAND Memory Market, by Application, 2020–2027
Table 43 Asia-Pacific: 3D NAND Memory Market, by Vertical, 2020–2027
Table 44 China: 3D NAND Memory Market, by Type, 2020–2027
Table 45 China: 3D NAND Memory Market, by Application, 2020–2027
Table 46 China: 3D NAND Memory Market, by Vertical, 2020–2027
Table 47 Japan: 3D NAND Memory Market, by Type, 2020–2027
Table 48 Japan: 3D NAND Memory Market, by Application, 2020–2027
Table 49 Japan: 3D NAND Memory Market, by Vertical, 2020–2027
Table 50 India: 3D NAND Memory Market, by Type, 2020–2027

Table 51 India: 3D NAND Memory Market, by Application, 2020-2027
Table 52 India: 3D NAND Memory Market, by Vertical, 2020-2027
Table 53 South Korea: 3D NAND Memory Market, by Type, 2020-2027
Table 54 South Korea: 3D NAND Memory Market, by Application, 2020-2027
Table 55 South Korea: 3D NAND Memory Market, by Vertical, 2020-2027
Table 56 Taiwan: 3D NAND Memory Market, by Type, 2020-2027
Table 57 Taiwan: 3D NAND Memory Market, by Application, 2020-2027
Table 58 Taiwan: 3D NAND Memory Market, by Vertical, 2020-2027
Table 59 Rest of Asia-Pacific: 3D NAND Memory Market, by Type, 2020-2027
Table 60 Rest of Asia-Pacific: 3D NAND Memory Market, by Application, 2020-2027
Table 61 Rest of Asia-Pacific: 3D NAND Memory Market, by Vertical, 2020-2027
Table 62 Middle East & Africa: 3D NAND Memory Market, by Country, 2020-2027
Table 63 Middle East & Africa: 3D NAND Memory Market, by Type, 2020-2027
Table 64 Middle East & Africa: 3D NAND Memory Market, by Application, 2020-2027
Table 65 Middle East & Africa: 3D NAND Memory Market, by Vertical, 2020-2027
Table 66 Saudi Arabia: 3D NAND Memory Market, by Type, 2020-2027
Table 67 Saudi Arabia: 3D NAND Memory Market, by Application, 2020-2027
Table 68 Saudi Arabia: 3D NAND Memory Market, by Vertical, 2020-2027
Table 69 UAE: 3D NAND Memory Market, by Type, 2020-2027
Table 70 UAE: 3D NAND Memory Market, by Application, 2020-2027
Table 71 UAE: 3D NAND Memory Market, by Vertical, 2020-2027
Table 72 Rest of Middle East & Africa: 3D NAND Memory Market, by Type, 2020-2027
Table 73 Rest of Middle East & Africa: 3D NAND Memory Market, by Application, 2020-2027
Table 74 Rest of Middle East & Africa: 3D NAND Memory Market, by Vertical, 2020-2027
Table 75 Central & South America: 3D NAND Memory Market, by Country, 2020-2027
Table 76 Central & South America: 3D NAND Memory Market, by Type, 2020-2027
Table 77 Central & South America: 3D NAND Memory Market, by Application, 2020-2027
Table 78 Central & South America: 3D NAND Memory Market, by Vertical, 2020-2027
Table 79 Brazil: 3D NAND Memory Market, by Type, 2020-2027
Table 80 Brazil: 3D NAND Memory Market, by Application, 2020-2027
Table 81 Brazil: 3D NAND Memory Market, by Vertical, 2020-2027
Table 82 Chile: 3D NAND Memory Market, by Type, 2020-2027
Table 83 Chile: 3D NAND Memory Market, by Application, 2020-2027
Table 84 Chile: 3D NAND Memory Market, by Vertical, 2020-2027
Table 85 Rest of Central & South America: 3D NAND Memory Market, by Type, 2020-2027
Table 86 Rest of Central & South America: 3D NAND Memory Market, by Application, 2020-2027
Table 87 Rest of Central & South America: 3D NAND Memory Market, by Vertical, 2020-2027

List of Figures

FIGURE 1 Global 3D NAND Memory Market Segmentation
FIGURE 2 Forecast Methodology
FIGURE 3 Porter's Five Forces Analysis of the Global 3D NAND Memory Market
FIGURE 4 Value Chain of the Global 3D NAND Memory Market
FIGURE 5 Share of the Global 3D NAND Memory Market in 2020, by Country (in %)
FIGURE 6 Global 3D NAND Memory Market, 2020-2027
FIGURE 7 Sub-Segments of Component
FIGURE 8 Global 3D NAND Memory Market Size, by Type, 2020
FIGURE 9 Share of the Global 3D NAND Memory Market, by Type, 2020 to 2027
FIGURE 10 Sub-Segments of Connectivity
FIGURE 11 Global 3D NAND Memory Market Size, by Application, 2020
FIGURE 12 Share of Global 3D NAND Memory Market, by Application, 2020 to 2027
FIGURE 10 Sub-Segments of Vertical
FIGURE 11 Global 3D NAND Memory Market Size, by Vertical, 2020
FIGURE 12 Share of the Global 3D NAND Memory Market, by Vertical, 2020 to 2027